Original/Duplicate/Triplicate
CONTRACT CERTIFICATE

(For Other Works)

No ..... 158 & Part Bill Re

Division: BBMP / YNK

Sub-Division: Yelahanka Sub – Division.

YNK/DBR No. 48 Date 30.04.16

AEE / EEE. DN SBR No: 19/16-17 Date: 11/5/16 2016

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Work Code: 002-15-000024**

Schedule Docket No. Head of Account: Est.Cost: **10.00** Lakhs B.R.No. :

Name of Work : Maintenance of Existing borewells and providing pipe line and drilling of borewell at village areas in ward No-02 of yelahanka sub Division.

Name of Contractor and Full Address: Sri Adhinarayana Reddy, (Adi Electricals) Badranna layout, Maruthinagara kogilu road, yelahanka Bangalore-64

Reference to Agreement No. EE/YNK.D/ **E-Pmt4/W.O/72/2014-15** Date: 28-1-2015

Certified that the measurements were taken by me on 13/04/16 and recorded of Pages 215 & 48 to 331 to.....of measurement Book No. 2159 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on ...30/4.....and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being .....percent Rs.....
3) " Balance
4) Deduct Payment:
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No.....
   adjusted towards cash advance recovery of
   b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work. Amount paid on this bill Cheque / Cash.
5) Balance being unpaid value of work done held in reserve.
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.
7) Net amount due to or from Contractor unadjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within.
9) Value of Government materials supplied.

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

	Amount
Bill	645000
FSD	32250
ST	6450
EST	25800
LWF	6450
CBF	650
TD	71600
CR	573400
TM	645000

Total amount adjusted -

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

Witness
1.
2.

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

Stamp

Audited & Admitted for Rs. 645000/- (For use in the Office)

Rs. 573400/- by Cheque

and Rs. 71600/- by Cash

Executive Engineer

BBMP

sl no	Description of work	
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1 0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction	Each
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,)	Rmtr
	0 to 50 m	
	50 to 100 m	
	100 to 150 m	
	150 to 200 m	
	200 to 250 m	
	250 to 300m	
3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes)	Rmtr
4	Providing and fixing 250mm dia PVC 6 kg/sqcm pressure pipe including jointing and labur charges for laying pipes and as per specification and directions. (BWSSB SR 13-14, P.No.45 I.no.1 of sl.no.11.)	Each
5	Providing and fixing 175mm Borewell cap	Each
6	Providing 175mm dia M.S Collar	Each
7	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings	No
8	Providing, GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc., complete 'A' grade(excluding cost of fittings)b50mm dia GI pipe (SR 13-14 PWD Page No XVII code No 509, 0154)	Rmtr
9	Providing & fixing socket GI (heavy duty collar) (Pwd SR pg xxxviii)	No
10	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts, P. No. 46/ I No. 30-B 4.0 Sqm mm of 36 strands 0.3mm	Mtr
11	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)	No
12	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm (P.NO-530, I.NO-39 b, BWSSB SR 13-14)	SAI Com No.
13	Providing & Fixing of clamps set and borewell cap to the pump .	No's

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
–	–	1.00	1882.00	1882.00	1.00	1882.00	
–	–			0.00	0.00	0.00	
–	–	50.00	315.18	15759.00	50.00	15759.00	
–	–	50.00	412.00	20600.00	50.00	20600.00	
–	–	50.00	458.35	22917.50	50.00	22917.50	
–	–	50.00	484.10	24205.00	50.00	24205.00	
–	–	50.00	560.32	28016.00	50.00	28016.00	
–	–	50.00	600.49	30024.50	50.00	30024.50	
–	–	60.00	1364.75	81885.00	60.00	81885.00	
–	–	18.00	1133.00	20394.00	18.00	20394.00	
–	–	1	100.00	100.00	1.00	100.00	
–	–	15.00	150.00	2250.00	15.00	2250.00	
–	–	1.00	70600.00	70600.00	1.00	70600.00	
–	–	246 548.00	330.63	81335 181185.24	246 548.00	81335 181185.24	
–	–	50.00	84.80	4240.00	50.00	4240.00	
–	–	500.00 490	164.29	80458 82145.00	500.00 490	80458. 82145.00	
–	–	1 2.00	10000.00	10,000 20000.00	1 2.00	10000 20000.00	
–	–	11000.00	0.34	3740.00	11000.00	3740.00	
–	–	1.00	450.00	450.00	1.00	450.00	

sl no	Description of work	
14	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve.) (PWD SR 13-14, P.NO.XXIV, Sl.no, 673)	No's
15	Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR 13-14, P.NO.XXIV, Sl.no, 659)	No's
16	Providing and fixing of 50mm GI bend to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's
17	Providing and fixing of 50mm GI Nipple to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's
18	Providing and fixing of 50mm GI union to the motor ((PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's
20	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No - 564, I.No - 3, BWSSB SR 13-14)	Per length
21	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc. Complete for basement out door type. (MR)	No's
22	Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)	No's
23	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14)	Mtr
	for Maintenance	
24	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces (P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14) in hard soil	Mtr
25	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14)	Mtr
26	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3 3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia (P.NO - 552, I.NO - 7 , BWSSB SR 13-14)	No's
27	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, (P.NO - 555, I.NO - 16 (b) , BWSSB SR 13-14)	No's
28	Supplying shunt capacitor's confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR)	No's
29	Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc,. Complete. 50mm dia (P.NO - 103, I.NO - 13.79.6, PWD SR 13-14)	No's
30	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc , Size 20 x 20 x 2.5 inches (P.NO - 521, I.NO - 2 (f), BWSSB SR 13-14)	No's
4	Lifting of Submersible Pump set **(P,46/I.10.3.21 RDED SR (2002-03)**	No
5	Transportataion of pumping machineries **(P.46/I.103)RDED SR (2002-03)**	No
6	**A) Repairs to Motor:**Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6months. **RDED SR (2002-03)P NO.39/ I,NO.A)**	
	a) -Do - above 3HP upto 5HP	No
	b) -Do - above 5HP upto 10HP	No
	(Above 5HP upto 10HP add Rs.115/- for every 1/2 HP)	
	B) Replacement of Motor Parts:	
7	Above 5HP Stator (with one year Gurantee) **P.No.40/Ino.C(2)RDED SR (2002-03)**	No
8	Above 5HP Rotor (with one year Gurantee) **P.No.40/I No.C(2)RDED SR (2002-03)**	No
9	Upper Flange **P.No.40/I No.3 RDED SR (2002-03)**	No
10	Lower Housing **P.No.40/I No.4 RDED SR (2002-03)**	No

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
–	–	3.00	1600.00	4800.00	3.00	4800.00	
–	–	3.00	1145.00	3435.00	3.00	3435.00	
–	–	3.00	219.00	657.00	3.00	657.00	
–	–	3.00	104.30	312.90	3.00	312.90	
–	–	3.00	223.70	671.10	3.00	671.10	
–	–	52.00	90.64	4713.28	52.00	4713.28	
–	–	1.00	475.00	475.00	1.00	475.00	
–	–	1.00	906.40	906.40	1.00	906.40	
–	–	35.00	169.95	5948.25	35.00	5948.25	
–	–	30.00	169.95	5098.50	30.00	5098.50	
–	–	65.00	56.65	3682.25	65.00	3682.25	
–	–	3.00	294.58	883.74	3.00	883.74	
–	–	1.00	1699.50	1699.50	1.00	1699.50	
–	–	1.00	271.92	271.92	1.00	271.92	
–	–	1.00	1350.00	1350.00	1.00	1350.00	
–	–	3.00	1515.80	4547.40	3.00	4547.40	
–	–	1.00	311.58	311.58	1.00	311.58	
–	–	5.00	750.00	3750.00	5.00	3750.00	
–	–	5.00	800.00	4000.00	5.00	4000.00	
–	–			0.00	0.00	0.00	
–	–	4.00	2500.00	10000.00	4.00	10000.00	
–	–	1.00	3700.00	3700.00	1.00	3700.00	
–	–			0.00	0.00	0.00	
–	–			0.00	0.00	0.00	
–	–	3.00	4600.00	13800.00	3.00	13800.00	
–	–	3.00	4500.00	13500.00	3.00	13500.00	
–	–	8.00	350.00	2800.00	8.00	2800.00	
–	–	8.00	575.00	4600.00	8.00	4600.00	

sl no	Description of work	
11	Lower Flange **P.No.40/I No.5 RDED SR (2002-03)**	No
12	a) Carbon Housing **P.No.40/I No.7A RDED SR (2002-03)**	No
13	b) Thrust bearing block assembly complete with Segment bearing pad **P.No.40/I No.7B RDED SR (2002-03)**	No
14	c) Tip Carbon /Ferrodo pading **P.No.40/I No.7C RDED SR (2002-03)**	No
15	Bearing (Gun metal)Centrifugal cast Aluminium Bronze, bearing bush **P.No.41/I No,9 RDED SR (2002-03)**	No
16	Motor Base with pin **P.No. 41/ I No.11 RDED SR (2002-03)**	No
17	Re-erection charges of pumping machineries including overhauling and painting **P.No.41/I No 13,RDED SR (2002-03)**	No
18	Labour Charge (overhauling Motor only) **P.No.41/ I No.15 RDED SR (2002-03)**	No
19	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement Pump bowls **P.No.39 / I No B1 RDED SR (2002-03)**	No
20	Intermediate piece (I.P) with IP leaded bronze bush **P.No. 44/ I No.B2 RDED SR (2002-03)**	No
21	Oil seal **P.No. 44/ I No.B3 RDED SR (2002-03)**	No
22	Oil seal steel bush **P.No. 39/ I No.B4 RDED SR (2002-03)**	No
23	Guide vane Pno 39/I No B5 RDED (2002-03)	No
24	Impeller (shell moulded with aluminium and Bonze) P No 39/ I no B6 RDED SR 2002-03	No
25	a) Discharge outlet (D.O) Bearing D.O Steel Bush **P.No. 39/ I No.B7 RDED SR (2002-03)**	No
26	b)D.O Bearing **P.No. 39/ I No.B7 RDED SR (2002-03)**	No
27	Steel bush (D.O) steel bush) **P.No. 39/ I No.B8 RDED SR (2002-03)**	No
28	Allen Screw **P.No. 40/ I No.9 RDED SR (2002-03)**	No
29	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P.No. 40/ I No.10 RDED SR (2002-03)**	No
30	Pump key (Stainless steel) **P.No. 40/ I No.11 RDED SR (2002-03)**	No
31	Pump coupling (stainless steel) **P.No. 40/ I No.12RDED SR (2002-03)**	No
32	Non - Return valve (NRV) assembly complete with rubber 'O' Ring **P.No. 40/ I No.13RDED SR (2002-03)**	No
33	Cabble guard **P.No. 40/ I No.14RDED SR (2002-03)**	No
34	Strainer **P.No. 40/ I No.15RDED SR (2002-03)**	No
35	Providing and fixing 50 mm dia heavy duty coller **SE RDED Approved rate**	No
31	KSRB 2-1.1 Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.1, PWD SR 13-14)	Cum
32	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.12 item No.3.4.2 b PRED SR 2010-11.	Rmtr
	75mm dia 6 KSC PVC pipe	
	63 mm dia 6 KSC	
33	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 13-14)	Cum
	TOTAL	

Certificates:

1 The above work is done satisfactorily and complete in all respect.
2 There is no department Material issue for the above work.
3 This works comes under BBMP Limit.

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
–	–	8.00	350.00	2800.00	8.00	2800.00	
–	–	8.00	450.00	3600.00	8.00	3600.00	
–	–	8.00	950.00	7600.00	8.00	7600.00	
–	–	8.00	75.00	600.00	8.00	600.00	
–	–	8.00	375.00	3000.00	8.00	3000.00	
–	–	8.00	450.00	3600.00	8.00	3600.00	
–	–	8.00	850.00	6800.00	8.00	6800.00	
–	–	8.00	450.00	3600.00	8.00	3600.00	
–	–	8.00	145.00	1160.00	8.00	1160.00	
–	–	10.00	490.00	4900.00	10.00	4900.00	
–	–	10.00	22.00	220.00	10.00	220.00	
–	–	10.00	75.00	750.00	10.00	750.00	
–	–	30.00	178.00	5340.00	30.00	5340.00	
–	–	40.00	220.00	8800.00	40.00	8800.00	
–	–	10.00	435.00	4350.00	10.00	4350.00	
–	–	10.00	250.00	2500.00	10.00	2500.00	
–	–	10.00	150.00	1500.00	10.00	1500.00	
–	–	10.00	25.00	250.00	10.00	250.00	
–	–	10.00	950.00	9500.00	10.00	9500.00	
–	–	10.00	125.00	1250.00	10.00	1250.00	
–	–	10.00	250.00	2500.00	10.00	2500.00	
–	–	10.00	1350.00	13500.00	10.00	13500.00	
–	–	10.00	150.00	1500.00	10.00	1500.00	
–	–	10.00	75.00	750.00	10.00	750.00	
–	–	10.00	116.00	1160.00	10.00	1160.00	
–	–	54.00	173.84	9387.36	54.00	9387.36	
–	–			0.00	0.00	0.00	
–	–	60.00	117.00	7020.00	60.00	7020.00	
–	–	40.00	88.00	3520.00	40.00	3520.00	
–	–	54.00	59.36	3205.44	54.00	3205.44	
–	–						
				820969.86		820969.86	

645000/- 645000/-

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore